

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P866272

Luminaire Tested: PRLX-2002-M-930-75L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-75L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

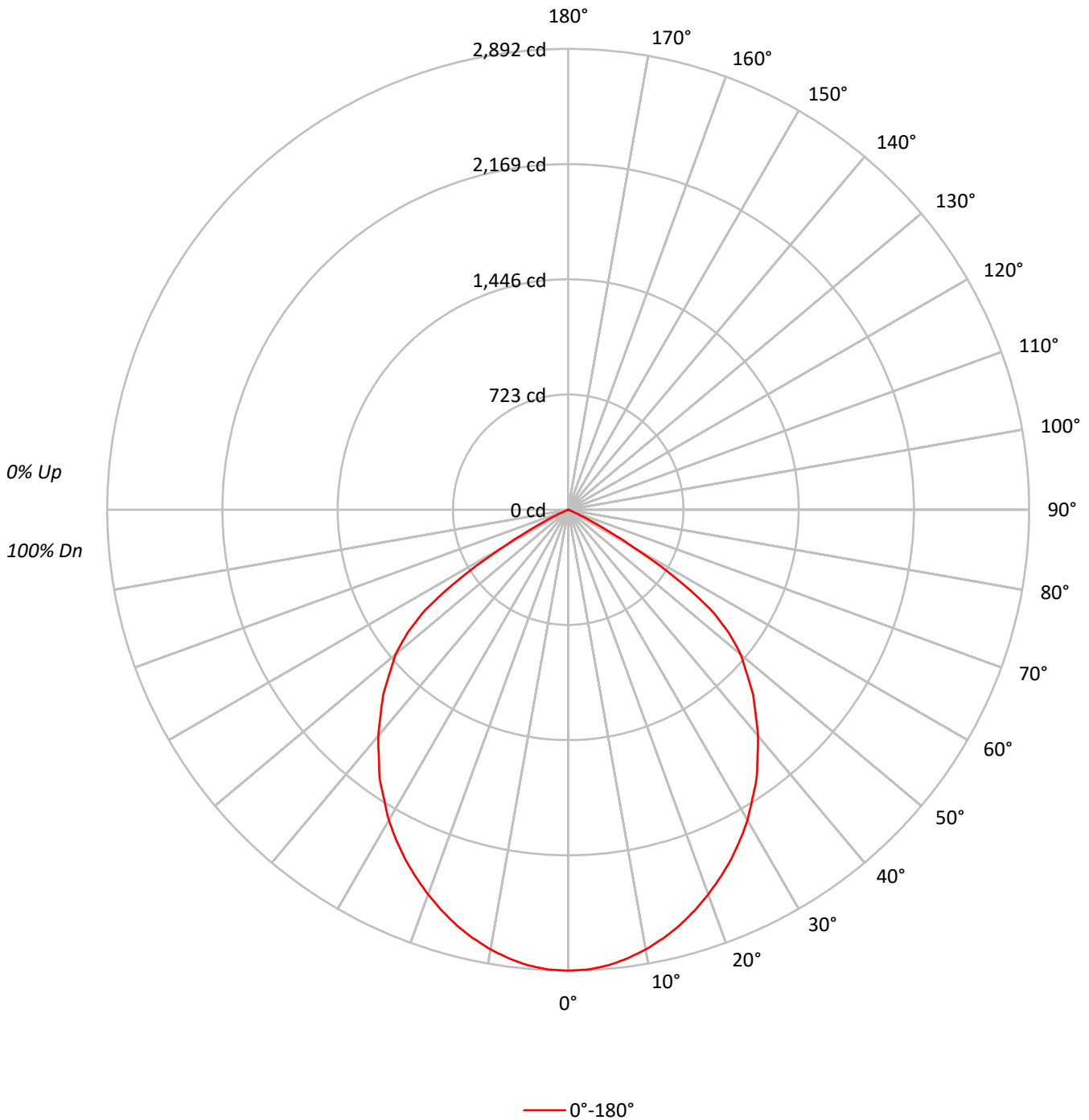
Lumens per Lamp: N/A
Luminaire Lumens: 5755.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23011
5°	22923
10°	22641
15°	22246
20°	21752
25°	21240
30°	20671
35°	20013
40°	19245
45°	18449
50°	17480
55°	15134
60°	7744
65°	1502
70°	140
75°	184
80°	183
85°	183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18449 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.8	4.7
10°-20°	760.5	13.2
20°-30°	1113.6	19.3
30°-40°	1285.0	22.3
40°-50°	1259.9	21.9
50°-60°	915.5	15.9
60°-70°	140.4	2.4
70°-80°	5.5	0.1
80°-90°	2.7	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2145.8	37.3
0°-40°	3430.9	59.6
0°-60°	5606.3	97.4
0°-90°	5755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5755.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2892	
5°	2870	272
15°	2701	760
25°	2420	1114
35°	2061	1285
45°	1640	1260
55°	1091	916
65°	80	140
75°	6	6
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2892.4
2.5°	2888.4
5°	2870.4
7.5°	2840.5
10°	2802.6
12.5°	2754.7
15°	2700.9
17.5°	2637.1
20°	2569.2
22.5°	2495.4
25°	2419.6
27.5°	2335.9
30°	2250.1
32.5°	2150.3
35°	2060.6
37.5°	1950.9
40°	1853.1
42.5°	1741.4
45°	1639.7
47.5°	1518.0
50°	1412.3
52.5°	1270.7
55°	1091.1
57.5°	805.9
60°	486.7
62.5°	231.4
65°	79.8
67.5°	19.9
70°	6.0
72.5°	6.0
75°	6.0
77.5°	4.0
80°	4.0
82.5°	4.0
85°	2.0
87.5°	2.0
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.33	21.74	20.69	22.06	22.37	20.33	21.74	20.69	22.06	22.37
	3H	20.21	21.45	20.59	21.78	22.15	20.21	21.45	20.59	21.78	22.15
	4H	20.15	21.30	20.55	21.65	22.03	20.15	21.30	20.55	21.65	22.03
	6H	20.07	21.13	20.49	21.50	21.89	20.07	21.13	20.49	21.50	21.89
	8H	20.03	21.04	20.46	21.43	21.83	20.03	21.04	20.46	21.43	21.83
	12H	20.00	20.95	20.43	21.33	21.76	20.00	20.95	20.43	21.33	21.76
4H	2H	20.17	21.32	20.57	21.67	22.05	20.17	21.32	20.57	21.67	22.05
	3H	20.05	20.98	20.47	21.38	21.79	20.05	20.98	20.47	21.38	21.79
	4H	19.97	20.79	20.41	21.21	21.65	19.97	20.79	20.41	21.21	21.65
	6H	19.90	20.60	20.36	21.05	21.52	19.90	20.60	20.36	21.05	21.52
	8H	19.84	20.50	20.31	20.95	21.42	19.84	20.50	20.31	20.95	21.42
	12H	19.80	20.38	20.28	20.87	21.34	19.80	20.38	20.28	20.87	21.34
8H	4H	19.84	20.50	20.31	20.95	21.42	19.84	20.50	20.31	20.95	21.42
	6H	19.74	20.28	20.24	20.78	21.26	19.74	20.28	20.24	20.78	21.26
	8H	19.67	20.17	20.19	20.68	21.17	19.67	20.17	20.19	20.68	21.17
	12H	19.62	20.07	20.14	20.56	21.13	19.62	20.07	20.14	20.56	21.13
12H	4H	19.79	20.38	20.28	20.86	21.34	19.79	20.38	20.28	20.86	21.34
	6H	19.67	20.17	20.19	20.68	21.17	19.67	20.17	20.19	20.68	21.17
	8H	19.62	20.07	20.14	20.56	21.13	19.62	20.07	20.14	20.56	21.13